

FIG. 1

100: AUTOMATIC GAIN CONTROL CIRCUIT

101: VARIABLE GAIN AMPLIFIER

102: POWER DETECTION CIRCUIT

5 103: GAIN CONTROL CIRCUIT

104: INITIAL VALUE SETTING CIRCUIT

105: RECEIVE POWER ESTIMATION CIRCUIT

RECEIVED SIGNAL

10 FIG. 2

206: COMMUNICATION DISTANCE CALCULATION CIRCUIT

207: DISTANCE-GAIN CONVERSION CIRCUIT

CURRENT POSITION INFORMATION

POSITION INFORMATION OF PARTNER STATION

15

FIG. 3

400: RADIO COMMUNICATION APPARATUS

FIG. 4

20 414: GPS SATELLITE

413: BASE STATION

COMMUNICATION ANTENNA

DISTANCE

GPS ANTENNA

25 412: MOBILE STATION